

State of Washington
Capital Projects Advisory Review Board (CPARB)
PROJECT REVIEW COMMITTEE (PRC)

APPLICATION FOR PROJECT APPROVAL
To Use the Design-Build (DB)
Alternative Contracting Procedure

The PRC will only consider complete applications: Incomplete applications may result in delay of action on your application. Responses to sections 1-7 and 9 should not exceed 20 pages (*font size 11 or larger*). Provide no more than six sketches, diagrams or drawings under Section 8.

Identification of Applicant

- a) Legal name of Public Body (your organization): **King County**
- b) Mailing Address: **201 South Jackson Street, Suite 500 Seattle, WA 98104**
- c) Contact Person Name: **Ann Fowler, P.E., PMP** Title: **Capital Project Manager, Assoc. DBIA**
- d) Phone Number: **206-477-9115** E-mail: **afowler@kingcounty.gov**

1. Brief Description of Proposed Project

- a) Name of Project: **Eastside Interceptor Section 8 Rehabilitation**
- b) County of Project Location: **King**
- c) Please describe the project in no more than two short paragraphs.

The Eastside Interceptor (ESI) is one of the primary sewer conveyance systems within King County (KC). The system collects untreated wastewater flows from various collection points beginning in Kirkland, Washington, and carries the flows to the King County Wastewater Treatment Division's (KCWTD) South Treatment Plant located in Renton, Washington. The ESI is categorized into fourteen sections for operations and maintenance purposes. This project is associated with ESI Section 8, which is composed of 5,658 linear feet of 90-inch to 96-inch concrete tunnel. ESI Section 8 is experiencing significant degradation due to age, pipe material, and hydrogen sulfide-related corrosion and needs to be repaired to prevent failure, overflow, or disruption of service. Recent CCTV footage shows that this tunnel has areas of reinforcing steel exposed due to pipe wall loss. The objective of this project is to maintain reliable sewage conveyance and extend the useful life of the existing sewer by rehabilitating conveyance system pipelines and/or structures suffering from severe hydrogen sulfide-related corrosion while minimizing capacity impacts.

The upstream 800-feet of the tunnel was previously lined in 1996 and 1998 with a fully adhered PVC lining system. This project will rehabilitate the remaining 4,800 feet of the existing tunnel from the Energy Dissipating Structure located at the intersection of I-90 and I-405 in Bellevue, Washington to the maintenance hole structure located at the intersection of Coal Creek Parkway SE and I-405. Rehabilitation is anticipated to include installation of a liner system and other associated repairs. To facilitate pipeline rehabilitation, sewage flows will need to be diverted using a temporary pump station and a temporary parallel above-ground sewer line. The temporary sewer diversion will follow the King County Eastside Rail Corridor (ERC) and exit from the corridor near the I-405/Coal Creek Parkway intersection. At this location, the temporary sewer diversion pipe will need to cross I-405 and discharge into the maintenance hole on the east side of I-405. The ERC is currently an unencumbered and unused corridor. However, the use of the ERC for the bypass alignment is only available until the end of 2025, because King County Parks is expected to begin construction early 2026 to convert this segment to a recreational trail. Key project challenges include routing of diversion piping to and from the ERC (including a major WSDOT crossing), coordination with a concurrent capital project and environmental permitting at the south end of the alignment.

2. Projected Total Cost for the Project:

A. Project Budget

Costs for Professional Services (A/E, Legal etc.)	\$ 8,000,000
Estimated project construction costs (including construction contingencies):	\$36,871,000
Equipment and furnishing costs	\$-
Off-site costs	\$-
Contract administration costs (owner, cm etc.)	\$ 8,876,000
Contingencies (design & owner)	\$15,799,000
Other related project costs (briefly describe)*	\$ 8,802,000
Sales Tax	\$ 4,532,000
Total	\$82,880,000

*Other related project costs include permitting, right-of-way, sustainability, and escalation.

B. Funding Status

Please describe the funding status for the whole project. *Note: If funding is not available, please explain how and when funding is anticipated*

Funding for the project has been appropriated and approved by the King County Council to support the planning, preliminary and final design, and construction of the project as part of the King County Capital Project Budget.

3. Anticipated Project Design and Construction Schedule

Please provide:

The anticipated project design and construction schedule, including:

- a) Procurement;
- b) Hiring consultants if not already hired; and
- c) Employing staff or hiring consultants to manage the project if not already employed or hired.

The key project tasks and milestone dates are summarized below. See Attachment A, Project Schedule, for a more detailed schedule breakdown.

Project Task	Start Date	Completion Date
Owner Advisor Procurement	07/2022	11/2022
Project Review Committee Process	11/2022	02/2023
PDB Procurement Process and Contract Execution	02/2023	08/2023
PDB Design and Preconstruction (to GMP)	09/2023	06/2024
PDB Final Design and Construction	07/2024	12/2025
Construction Substantial Completion		12/2025

4. Explain why the DB Contracting Procedure is Appropriate for this Project

Please provide a detailed explanation of why use of the contracting procedure is appropriate for the proposed project. Please address the following, as appropriate:

In May 2021, KCWTD established an Alternative Delivery Committee (ADC) to enhance KCWTD’s ability to deliver a large and diverse portfolio of capital projects. The ADC adopted a two-step process to screen capital projects to determine if projects are suitable for DB or GCCM delivery methods. Step 1 determines whether a given project is suitable for either the DB or GCCM delivery method. Step 2 is a “type selection” process to determine the best or optimal delivery method.

The ESI Section 8 project went through this two-step process. Step 1 determined that the project was suitable for alternative delivery, and Step 2 determined that the PDB method would be the best method for achieving the project goals, consistent with the criteria identified in RCW 39.10 for the use of DB, based on the key project attributes described below.

- If the construction activities are highly specialized and a DB approach is critical in developing the construction methodology (1) What are these highly specialized activities, and (2) Why is DB critical in the development of them?

Two key components of this project are rehabilitation of an existing large diameter sewer tunnel, and ongoing diversion of sewer flows during construction through a temporary parallel pump station and pipeline. Both components are highly specialized and will benefit from use of PDB delivery. Specific technical and construction challenges that PDB delivery was selected to address include:

- **Early Specialized Input.** The PDB method maximizes the opportunity for KC and the design-build team (the design-builder, designer, and the specialty lining subcontractor) to function as an integrated team and develop a project plan to address the numerous project challenges. Input from specialty lining contractors (lining technology, access methods, required working conditions) will be critical in the planning and design phases of this project; with DBB or GC/CM methods, engagement with specialty subcontractors could not occur until relevant subcontract bid packages are prepared and awarded.
- **Lining Technology Selection.** KC has conducted planning work to identify several potential lining technologies for the project, and desires specialized expertise to select an optimal technology for the particular needs and challenges of this project.
- **Sewer Diversion Planning.** Routing for the required large diameter sewer diversion line is very challenging. Design-builder specialized knowledge and innovation is needed to identify optimal approaches to:
 - i. Route diversion piping from the north tunnel access point onto the ERC diversion route,
 - ii. Route diversion piping from the ERC to the south tunnel access point, including a major crossing of the I-405 on-ramp and freeway. The method for that crossing has not been determined.
 - iii. Coordinate with a concurrent major KCWTD capital project occurring at the south access point, including coordination of construction activities, and coordination of environmental permitting (e.g., necessary tree clearing and wetland disturbance) between the two projects to minimize impacts.
 - iv. Early input on planned diversion routing and methods will help streamline permitting and approvals from WSDOT, Bellevue Parks, and other jurisdictions.
- **Access Planning.** Given the size of this tunnel, lining technology installation will be completed by workers accessing the tunnel while flows are diverted to create an accessible working environment. Due to the nature of tunnel access (two access points at either end of the tunnel, more than a mile apart), the work will be highly specialized and require careful planning and input to address human safety considerations (e.g., access points, retrieval, ventilation, etc.) and effectively complete the work.
- **Risk Reduction.** Having a single design and construction team responsible for design and implementation of the liner system and sewer diversion system will reduce the risk of changes during construction and gaps between the design and construction teams, relative to DBB and GC/CM delivery methods.
- If the project provides opportunity for greater innovation and efficiencies between a designer and builder, describe these opportunities for innovation and efficiencies.

The collaborative nature of PDB will allow KC to leverage the design-builder's collective expertise during the preconstruction stages to develop optimal construction sequencing strategies (including potential early works packages) in order to capitalize on the availability of the ERC as a bypass pumping corridor prior to the start of the KC Parks construction project on the ERC. KC also seeks to gain the benefit of industry knowledge regarding the current and best-suited methods to rehabilitate aging conveyance systems, pipelines and/or structures, and apply that knowledge for innovative solutions to the lining, routing, and access challenges of ESI Section 8. KC's goal is to secure a design-builder to capture the latest techniques, promote innovative ideas, and identify efficiencies that

are in the best interest of the project. Environmental factors and stakeholder impacts can also be taken into consideration through a collaborative approach focused on innovation and efficiencies.

- If significant savings in project delivery time would be realized, explain how DB can achieve time savings on this project.

Schedule is a critical driver for this project, with sewer diversion on the ERC needing to be concluded by the end of 2025 to accommodate planned KC Parks work along the ERC alignment.

PDB offers features which will be critical to the schedule success of the project, including:

- Early contractor engagement for technical and permitting challenges,
- Early knowledge of planned construction routes and impacts to inform permitting processes and engage stakeholders
- The potential for early work packages to procure long-lead items, install the sewer diversion bypass line, and conduct other early construction activities to prepare for tunnel access and rehabilitation, and
- Enhanced collaboration throughout the design and construction process, which will reduce the risk of changes and delays.

The DB procurement process will take approximately the same amount of time that KC would normally expect to hire a design team in the traditional, DBB procurement method. The DB approach will compress the traditional project delivery schedule, including avoiding a separate procurement for a DBB contractor, which ordinarily can take 6-8 months for KC. With PDB, certain construction activities may start while the design is being completed.

We also anticipate that the duration for design will be shorter because documentation will be done to the extent necessary for permitting and construction, rather than to the more robust level typically needed for competitive construction bidding.

5. Public Benefit

In addition to the above information, please provide information on how use of the DB contracting procedure will serve the public interest. For example, your description must address, but is not limited to:

- How this contracting method provides a substantial fiscal benefit; or
- How the use of the traditional method of awarding contracts in a lump sum (*the “design-bid-build method”*) is not practical for meeting desired quality standards or delivery schedules.

KC has protected water quality in the Puget Sound region since 1958 by providing wastewater treatment services to King, Pierce, and Snohomish counties. KC is an industry leader in developing and implementing new approaches and technologies to wastewater treatment, recycling, energy generation and use, and service delivery. Our regional wastewater treatment system operates around the clock and by providing critical wastewater treatment services KC contributes to the long-term viability and health of the environmental, social, and economic aspects of our communities. The ESI Section 8 project will rehabilitate and support the reliability of a key part of the regional wastewater treatment system.

PDB delivery will provide a substantial fiscal benefit in the following ways:

- Project implementation by a DB team will reduce overall project risk by decreasing the incidence of change orders and coordination delays through a single design and construction team, providing more cost certainty.
- KC and the design-builder to begin working together early in the design process to make design decisions influenced by cost transparency during design development.
- KC intends to achieve budget control by working collaboratively with the PDB to balance capital cost elements with long-term maintenance and replacement cost impacts. As a result, the public will benefit when the project is delivered in a quality manner with greater time and cost certainty and accountability for performance.

As noted in Section 4, traditional DBB delivery is not practical to meet the trail-related 2025 project schedule driver, or to provide the specialized expertise early in the project needed to address critical project challenges for liner installation and sewer diversion work. By selecting the most qualified team based on experience and pricing factors, rather than based solely on the lowest price, the project construction process and finished rehabilitation work will safeguard public health and minimize disruption to the regional wastewater conveyance system and the vicinity of the project.

6. Public Body Qualifications

Please provide:

- A description of your organization's qualifications to use the DB contracting procedure.

KC has extensive experience delivering large capital projects, including using alternative delivery methods, and has established an Alternative Delivery Committee and Pilot Program to support alternative delivery capacity building and successful implementation of alternative delivery projects. KC's key staff have relevant alternative delivery experience, and will be supported throughout the life of the project by an Owner's Advisor consultant team with decades of alternative delivery experience. KC's DB qualifications are further described below and in subsequent sections.

Capital Project Experience. KCWTD has been conducting and managing major capital projects for many years, with significant in-house project delivery and engineering resources. KCWTD delivers capital projects totaling \$360M annually.

Alternative Delivery Experience. Pursuant to approvals by the PRC, various KC departments and divisions have utilized alternative delivery methods authorized by RCW 39.10, including DB and GC/CM contracting procedures, on a number of projects during the past ten years. KCWTD has utilized the GC/CM contracting method on the Brightwater Treatment Plant project and DB delivery for the Brightwater Outfall Tunnel project between 2005 and 2011.

Alternative Delivery Committee and Pilot Program. KCWTD determined that its ability to deliver a large and diverse portfolio of capital projects would be enhanced if it expanded its consideration and use of alternative delivery methods. Therefore, in May 2021, KCWTD established an Alternative Delivery Committee (ADC) consisting of leadership across various units of KCWTD's Project Planning and Delivery Section with experience in DB and GC/CM delivery methods, and representation from KCWTD operations and maintenance. The ADC is dedicated to assisting KCWTD in seeking increased efficiencies, improved project throughput, and better leveraging internal resources by advocating for the use of alternative delivery methods to deliver selected KCWTD projects. The ADC has also established an alternative delivery pilot program to support implementation of alternative delivery on KCWTD projects. The program has multiple facets to build alternative delivery expertise and capacity within KCWTD, including training, industry outreach, and development of processes and tools for implementing alternative projects in-line with RCW 39.10 and industry best practices.

In addition, KCWTD staff have attended formal training conducted by the Design-Build Institute of America (DBIA), Associated General Contractors (AGC), and the Water Collaborative Delivery Association (WCDA, formerly the Water Design-Build Council). The DBIA training has included training exclusively for KCWTD with the goal of achieving DBIA certification for KCWTD project staff. During the past year, thirty-four KCWTD staff have participated in DBIA Certification training and to-date five staff have obtained certification from DBIA. During the past 15 months, KCWTD staff have also participated in interviews with industry leaders to gain insight regarding best practices and lessons learned to achieve success utilizing DB (particularly PDB) and GC/CM contracting methods.

KCWTD has further engaged a consulting team consisting of Griffin, Hill & Associates (GHA) and Tanner Pacific, Inc. (TPI) to support training and develop internal processes and tools needed to implement the Pilot Project. The GHA/TPI team has conducted approximately forty (40) hours of training for KC staff regarding the use of DB and GC/CM contracting methods in the water/wastewater industry. In addition to training, the GHA/TPI team has supported and facilitated the ADC's adoption of a two-step process to screen KCWTD capital projects to determine if projects are suitable for DB or GC/CM delivery methods. The ADC has also reviewed and modified the governance structure, organizational assets, and internal processes for capital projects in anticipation of utilizing alternative delivery methods.

Project Team. The Project Manager for the ESI Section 8 project, Ann Fowler, and Contract Specialists Diane Navarro and Melissa Jordan hold Associate DBIA certifications. Melissa is a member of KC's overall procurement group (not specific to KCWTD), and has direct experience procuring and overseeing DB projects for during her tenure at Sound Transit and has been assisting with document development for the alternative delivery pilot program. The Project Engineer, Doug Jones, has experience on multiple DB projects and holds a DBIA certification.

Owners Advisor. To support and assist KC WTD, an Owner Advisor (OA) consultant team including OA Lead Pat Tangora and OA PM Patrick Weber, who is DBIA certified, will support the ESI Section 8 project team. The OA team has extensive experience supporting owners with the procurement, delivery, and oversight of PDB projects.

The qualifications of KC staff and consultants are provided below.

- A project organizational chart, showing all existing or planned staff and consultant roles.

Note: The organizational chart must show the level of involvement and main responsibilities anticipated for each position throughout the project (for example, full-time project manager). If acronyms are used, a key should be provided.

Refer to Attachment E, Organization Chart.

- Staff and consultant short biographies that demonstrate experience with DB contracting and projects (not complete résumés).

Ann Fowler, P.E., PMP, Assoc. DBIA, King County WTD

Role: Project Manager

Relevant Experience: Ann is a project manager with King County's Wastewater Treatment Division (WTD) and has over 15 years of project management experience covering traditional design-bid-build contracts and has attended DBIA led trainings to obtain her Associate DBIA certification. Ann is a registered professional engineer in the State of Washington, and a certified Project Management Professional (PMP). Ann has led various infrastructure improvement projects including replacement and rehabilitation of water, sewer, and storm utility improvements in the downtown core for the City of Renton.

Doug Jones, P.E., DBIA, King County WTD

Role: Project Engineer

Relevant Experience: Doug is a Senior Wastewater Engineer with King County's Wastewater Treatment Division (WTD) and has over 30 years of experience in public works engineering. Doug is a registered professional engineer in Washington, a certified construction manager (CCM) and is certified as a DBIA professional. He has managed design-build projects with the Tri-County Metropolitan District of Oregon (TriMet) including the delivery of positive train control for its commuter rail fleet and the communication system retrofit of 105 light rail vehicles associated with the Portland to Milwaukie light rail extension. Most recently, Doug worked with the City of Portland Bureau of Environmental Services in developing an alternative delivery plan for rehabilitation of aging sewer infrastructure in the City of Portland downtown core.

Bob Isaac, Lining Program Manager, King County WTD

Role: Sewer Rehabilitation Advisor

Relevant Experience: Bob has been in inspection, maintenance, and rehabilitation of the King County wastewater system for over 35 years. He has certification from the National Association of Corrosion Engineers (NACE/AMPP) as a Corrosion Technologist. Bob has been directly involved as the County's engineering representative in pipeline rehabilitation on numerous projects utilizing a variety of rehabilitation methods. He currently manages the long-term planning for the rehabilitation program and is serving on project teams as a subject matter expert.

Tony Robinson, King County WTD

Role: Project Representative (Construction)

Relevant Experience: Tony is a Construction Management Project Representative with King County's Wastewater Treatment Division with over 20 years of experience in construction management. Tony has provided construction oversight on similar sewer rehabilitation projects for KCWTD.

Melissa Jordan, Associate DBIA, King County Procurement

Role: Contract Specialist (Procurement)

Relevant Experience: Melissa has over 6 years of Alternative Public Work Experience and 15 years of public procurement experience. The majority of her experience was spent in Public Work and Capital Project procurement, contract administration, and close outs. Melissa holds a Bachelor's in Business Management, is a Certified Professional Public Buyer (CPPB) and an Associate DBIA.

Diane Navarro, Associate DBIA, King County WTD

Role: Contract Specialist (Administration)

Relevant Experience: Diane brings over 10 years of both public and private procurement experience, with the majority of her time working in public procurement with Seattle Public Schools (SPS) as the district's Contracting Services Manager. Diane brings with her years of procurement experience, which includes leading the procurements on about 10 GC/CM projects and multiple DBB projects. Additionally, Diane has participated in many DBIA trainings and holds an Associate DBIA certification.

Pat Tangora, Brown and Caldwell

Role: Owner Advisor Lead

Relevant Experience: Pat Tangora brings more than 30 years of experience serving as an OA, helping clients effectively deliver multi-disciplinary public works projects using a range of alternative delivery methods, including PDB and FPDB, design-build-operate (DBO), and construction manager-at-risk (CMAR) including GC/CM. Pat has led the evaluation of project delivery methods, procurement strategy development, contractor procurement, contract negotiations, and contractor oversight for projects ranging from under \$10M to over \$1B. In Washington, Pat has provided OA services for multiple water and wastewater projects and jurisdictions, helping procure DB and GC/CM teams in compliance with RCW 39.10 criteria, and assisting owners in oversight of projects during the design and construction phases.

Patrick Weber, P.E., PMP, DBIA, Brown and Caldwell

Role: Owner Advisor Project Manager

Relevant Experience: Patrick has 16 years of engineering experience in planning, design, and oversight of water and wastewater projects. Patrick provides OA services for delivery method evaluation, procurement, design oversight, and construction oversight of alternative delivery projects around the country, focused primarily on progressive design-build (PDB). Patrick has provided OA services for more than 10 PDB projects, including two PDB OA projects in the Puget Sound region. He has experience applying PDB principles to the particular challenges of linear conveyance projects.

Adam Wirthlin, P.E., Tanner Pacific

Role: Owner Advisor Lead Cost Estimator

Relevant Experience: Adam Wirthlin draws on his diverse career in construction spanning 20 years working for both contractors and engineers on a variety of construction projects. Adam has provided independent cost estimates for several PDB projects and has experience providing negotiations support for design-build projects.

- Provide the ***experience and role on previous DB projects*** delivered under RCW 39.10 or equivalent experience for each staff member or consultant in key positions on the proposed project.
See Attachment B, Project Experience and Role, for each staff member in key positions in the proposed project.

- The qualifications of the existing or planned project manager and consultants.

Note: For Design-Build projects, you must have personnel who are independent of the Design-Build team, knowledgeable in the Design-Build process, and able to oversee and administer the contract.

The County's project manager, Ann Fowler, has over 15 years of project management experience covering traditional design-bid-build contracts and has obtained her Associate DBIA certification. Ann is a registered professional engineer in the State of Washington, and a certified Project Management Professional (PMP). Ann has led various infrastructure improvement projects including replacement and rehabilitation of water, sewer, and storm utility improvements in the downtown core for the City of Renton.

The County's OA Lead, Pat Tangora, has worked on alternative delivery projects for over 30 years. Through this experience, she has gained significant understanding of the PDB process and has successfully executed a number of DB projects. The OA PM, Patrick Weber, is a DBIA certified engineer and project manager who has worked on OA projects for the last 10 years, including more than 10 PDB projects. Both Pat and Patrick are committed to overseeing the project and working closely with Ann to execute the work. Brown and Caldwell is currently under contract with the County for early procurement work, and the County's intent is to continue the OA contract through all phases of the project.

- If the project manager is interim until your organization has employed staff or hired a consultant as the project manager indicate whether sufficient funds are available for this purpose and how long it is anticipated the interim project manager will serve.

Not Applicable

- A brief summary of the construction experience of your organization's project management team that is relevant to the project.

KCWTD is responsible for planning and delivering more than one and one-half billion dollars of capital projects. Those projects include construction, repair, or rehabilitation of conveyance systems similar to the ESI Section 8 project.

Ann Fowler has significant project management and construction oversight experience from her tenures at KC and City of Renton, including for sewer rehabilitation and conveyance projects, and is backed by the experience, depth, and senior leadership of KC's Capital Projects Group. Ann will report to KCWTD's Definition and Delivery Board, which is responsible for oversight of capital projects. In addition, Bob Isaac manages KCWTD's lining program and has provided technical support on inspection, maintenance, and pipeline rehabilitation for KCWTD for over 35 years. KCWTD and this project team are focusing on alternative project delivery to allow for an integrated team to continue our long history of successfully completing large and complex construction projects.

KCWTD's Owner Advisor team will bring extensive experience overseeing DB procurement, contracting, design implementation, pricing negotiations, and construction. The OA team will provide full construction management support, including staff from Kennedy Jenks, Tanner Pacific, and Brown and Caldwell with extensive background in the PDB delivery method to support KCWTD in the delivery of the ESI Section 8 project.

Please see individual biographies for more details.

- A description of the controls your organization will have in place to ensure that the project is adequately managed.

KCWTD and Brown and Caldwell will be implementing project control procedures that address all aspects of the project from predesign through closeout. These procedures build on standard capital project management procedures used by KCWTD and are being tailored to PDB delivery. Detailed project control procedures address design development and reviews, scheduling, cost control and quality assurance, and closeout. A project-specific risk register has been developed to identify and mitigate risks. The risk register will be periodically updated throughout the Project and will be used to help manage contingencies.

During procurement of the design-builder, procedures will be implemented by King County procurement with support from the OA and project team to ensure that the procurement process, criteria, and project requirements comply with RCW 39.10.

The County and Design-BUILDER will implement design reviews, design logs and trend logs throughout the course of design development to ensure that the project goals, criteria, and requirements are met by the design packages. KCWTD will be the primary party responsible for engineering reviews related to design development by the design-builder, and stakeholder integration related to engineering development by the design-builder. KCWTD, with the assistance of the OA team, will lead the team in construction price negotiations with the design-builder in a transparent and open book manner.

In construction, field quality assurance will be a combined team effort, with KCWTD and OA oversight of work. Quality control and implementation of quality processes will be the responsibility of the design-builder, including the design-builder's engineer of record.

KCWTD's document and project controls best practices will be followed throughout the ESI Section 8 project. At the completion of the project, BC will prepare a project close-out report, which will capture all pertinent project data and lessons learned.

- A brief description of your planned DB procurement process.

King County will conduct the DB procurement process consistent with the process and criteria requirements of RCW 39.10. King County will follow the required two-part procurement process for DB, starting with issuance of a Request for Qualifications (RFQ). Once Statements of Qualifications (SOQs) are submitted, KCWTD will review and score SOQs in accordance with the criteria identified in the RFQ. Based on SOQ scoring, KCWTD will select finalists to submit proposals, which is anticipated to include up to three finalists. The selected finalists will receive a Request for Proposals (RFP), which will identify the submittal requirements for proposals, to include management and technical information, proposed pricing for preconstruction and design services, and one or more price-related factors applicable to the construction scope. During the proposal period, it is anticipated that an interactive proprietary meeting and/or interview will be held with each finalist. KC will then conduct proposal scoring according to the criteria laid out in the RFQ and RFP to identify the highest ranked firm. KC plans to provide an honorarium to the finalists that were not awarded the contract.

- Verification that your organization has already developed (or provide your plan to develop) specific DB contract terms.

KC has a well-established procurement office and staff that is supported by the KC Prosecuting Attorney (PAO), Jerry Taylor. Jerry Taylor and Trisha Roth are leading the development of new PDB templates, utilizing DBIA contract templates as a starting point for this procurement. The Interim Base Electrification and Harbor Maleng Single Patient Rooms PDB projects approved by the PRC in 2020 and 2021 used the UW model of PDB contracting (two agreements), which has not been ideal for KC. Over the past three months, a boilerplate PDB agreement and terms and conditions have been tailored to King County tolerances for future PDB projects.

KCWTD's OA will also lend expertise and support to this effort by identifying lessons learned and sharing best practices and discussing questions posed by PAO and procurement staff. We currently have draft final templates for RFQ, RFP, Agreement and Terms and Conditions documents tailored for PDB in place and ready for project-specific refinement.

7. Public Body (your organization) Construction History:

Provide a matrix summary of your organization's construction activity for the past six years outlining project data in content and format per the attached sample provided:

- Project Number, Name, and Description
- Contracting method used
- Planned start and finish dates
- Actual start and finish dates
- Planned and actual budget amounts
- Reasons for budget or schedule overruns

Refer to Attachment C, Construction History, which includes projects delivered by KCWTD and by other KC departments that have used collaborative delivery methods.

8. Preliminary Concepts, sketches or plans depicting the project

To assist the PRC with understanding your proposed project, please provide a combination of up to six concepts, drawings, sketches, diagrams, or plan/section documents which best depict your project. In electronic submissions these documents must be provided in a PDF or JPEG format for easy distribution. Some examples are included in attachments E1 thru E6. At a minimum, please try to include the following:

- A overview site plan (*indicating existing structure and new structures*)
- Plan or section views which show existing vs. renovation plans particularly for areas that will remain occupied during construction.

Note: applicant may utilize photos to further depict project issues during their presentation to the PRC

Attachment D includes a site map showing the location of planned tunnel rehabilitation work, and locations of key project challenges and constraints. No plan or section views have been developed to-date for rehabilitation improvements; photos to illustrate project issues will be included in the PRC presentation materials.

9. Resolution of Audit Findings On Previous Public Works Projects

If your organization had audit findings on any project identified in your response to Question 7, please specify the project, briefly state those findings, and describe how your organization resolved them.

KC has received no audit findings on any of the public works projects listed in response to Question 7.

10. Subcontractor Outreach

Please describe your subcontractor outreach and how the public body will encourage small, women and minority-owned business participation.

King County is a national leader in strategic planning that promotes Equity and Social Justice innovations. A common area of interest is how to influence the spending of government dollars to enhance equity outcomes for small businesses.

King County will establish voluntary goals with mandatory Good Faith Efforts (GFE) requirements for the participation of Minority Business Enterprises (MBE) and Women Business Enterprises (WBE) certified by the Washington State Office of Minority and Women Business Enterprises. The voluntary goals will be expressed as a percentage of the total contract value for performance by certified MBE and WBE firms. King County will require submission of an Equity and Social Justice Innovation Plan (the "Plan"). The Plan formalizes the proposer's approach and the specific actions to maximize work and growth opportunities for certified MBE and WBE firms on the project. The Plan provides a detailed narrative of how the proposer will implement outreach and engagement strategies, identify sub-consultant and subcontractor work opportunities, remove barriers to small and diverse business participation, and provide information on mentoring opportunities, and tools and resources for use in providing technical assistance to certified MBE and WBE firms. The Plan content shall address how the proposer will monitor and measure its efforts to

ensure achievement of the Plan objectives. King County will instruct the proposer to separately address inclusion strategies for design tasks, construction subcontracting, and equipment and supply purchases from state certified MBE and WBE firms. Upon contract execution, implementation of the plan shall be mandatory.

Consistent with the provisions of RCW 39.10.330 (8), KCWTD's contract with the awarded firm will require the firm to track and report to the KCWTD and to the Office of Minority and Women's Business Enterprises (OMWBE) its utilization of OMWBE certified businesses. During contract performance, the awarded firm will be required to submit monthly reports to the project team detailing the ESJ Innovation Plan activities taken over the past month, as well as those activities planned for the coming month. Additionally, the awarded firm will be required to report all subcontract awards, and all subcontractor/subconsultant/supplier payments on a monthly basis into the KCWTD's Diversity Compliance Management System (DCMS). If at any point the awarded firm falls short of the MBE and WBE utilization goals established for the contract, the County may require submittal of a corrective action plan.

CAUTION TO APPLICANTS

The definition of the project is at the applicant's discretion. The entire project, including all components, must meet the criteria of RCW 39.10.300 to be approved.

SIGNATURE OF AUTHORIZED REPRESENTATIVE

In submitting this application, you, as the authorized representative of your organization, understand that: (1) the PRC may request additional information about your organization, its construction history, and the proposed project; and (2) your organization is required to submit information requested by the PRC. You agree to submit this information in a timely manner and understand that failure to do so may delay action on your application.

The PRC strongly encourages all project team members to read the Design-Build Best Practices Guidelines as developed by CPARB and attend any relevant applicable training. If the PRC approves your request to use the DB contracting procedure, you also agree to provide additional information if requested.

The 2021 Legislature updated [RCW 39.10.330\(8\)](#) stating that Design-Build contracts must require the awarded firm to track and report to the public body and to the office of minority and women's business enterprises (OMWBE) its utilization of the OMWBE certified businesses and veteran certified businesses. By submitting this application, you agree to include these reporting requirements in project contracts.

I have carefully reviewed the information provided and attest that this is a complete, correct and true application.

Signature:  _____

Name: *(please print)* Ann Fowler, P.E., PMP *(public body personnel)*

Title: Capital Project Manager, Assoc. DBIA

Date: December 19, 2022

**ATTACHMENT B
PROJECT EXPERIENCE AND ROLE**

KING COUNTY PROJECT EXPERIENCE						Role during Project Phases		
No	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
1	Ann Fowler	Ann is a Senior Project Manager with King County's Wastewater Treatment Division with over 15 years of project management experience. She is a registered professional engineer in the State of Washington, a certified Project Management Professional (PMP), and is certified as an Assoc. DBIA professional.	Downtown Utility Improvement Project, City of Renton, Washington	\$20 M	DBB	N/A	PM/PE	PM/PE
			Kennydale Lakeline Sewer Upgrade Project, City of Renton, Washington	\$15 M	DBB	PM/PE	PM/PE	N/A
			Lift Station and Force Main Rehabilitation Project, City of Renton, Washington	\$5 M	DBB	PM/PE	PM/PE	PM/PE
2	Doug Jones	Doug is a Senior Wastewater Engineer with King County's Wastewater Treatment Division (WTD) and has over 30 years of experience in public works engineering and is certified as a DBIA professional.	Positive Train Control for Commuter Rail Fleet, Tri-County Metropolitan District of Oregon	\$15M	DB	PM/PE	PM/PE	RE
			Murray Force Main Rehabilitation – trenchless rehabilitation of large diameter concrete force main.	\$10M	DBB	PE	PE	PE
3	Bob Isaac	H2S Lining Program Manager for King County WTD. (PgM)	Brightwater Marine Outfall	\$30 M	DB	RFQ/RFP Review	Tech Advisor	Tech Advisor
4	Tony Robinson	Tony is a Construction Management Project Representative with King County's Wastewater Treatment Division with over 20 years of experience in construction management.	Edward C. Little Water Recycling Facility, Pasadena, California	\$60M	DB	CM/ Super	CM/ Super	CM/ Super
			North Mercer Island Interceptor and Enatai Interceptor Upgrade	\$180M	DBB	N/A	N/A	CM

KING COUNTY PROJECT EXPERIENCE						Role during Project Phases		
			Sunset and Heathfield Pump Stations and Force Main Upgrade	\$91M	DBB	N/A	N/A	CM
5	Melissa Jordan	Contract Specialist II, Procurement and Payables. Melissa has over 6 years of Alternative Public Work Experience and 15 years of public procurement experience. The majority of her experience was spent in Public Work and Capital Project procurement, contract administration, and close outs. Melissa holds a Bachelor's in Business Management, is a Certified Professional Public Buyer (CPPB) and an Associate DBIA.	Sound Transit, Lynnwood Link North and South Projects	\$471M / \$425M	Heavy Civil GC/CM		CS	CS
			Sound Transit, Roosevelt Station	\$154M	GC/CM			CS
			Sound Transit, U District Station	\$168M	GC/CM			CS
			Sound Transit, Puyallup Station Access Improvements	\$38M	DB (Trad'l)	CS	CS	CS
6	Diane Navarro	WTD Procurement Support Specialist. Diane has over 10 years in public and private procurement and is certified as a Assoc. DBIA professional.	Seattle Public Schools, Rainier Beach HS	\$238M	GC/CM	Procurement Manager/Lead		
			Seattle Public Schools, Lincoln HS	\$101M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Loyal Heights Elementary	\$37M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Olympic Hills Elementary	\$42M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Cascadia Elementary and Robert Eaglestaff Middle School	\$112M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead

OWNERS ADVISOR PROJECT EXPERIENCE						Role during Project Phases		
No	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
1	Pat Tangora (Brown and Caldwell)	Pat has more than 30 years of experience serving as an owner advisor, helping owners effectively deliver multi-disciplinary public works projects using a range of collaborative delivery methods, including PDB, FPDB, design-build-operate (DBO), and General Contractor/Construction Manager (GC/CM)	Jefferson and Hood Street Surface Water Interceptor PDB, City of Tacoma, Washington	\$30M	PDB	Consultant PM	Owner Advisor	Owner Advisor
			Water Treatment Plant PDB, City of Lewiston, Idaho	\$28.5	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Biosolids Dewatering PDB, City of San José, California	\$122 M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Reservoir 6 Roof Replacement, City of Everett, Washington	\$4.8M	FPDB	Owner Advisor	Owner Advisor	Owner Advisor
			Groundwater Treatment Plants, City of Anaheim, CA	\$130 M	FPDB	Owner Advisor	Owner Advisor	Owner Advisor
			Tacoma Central Treatment Plant Expansion	\$70M	DB	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor
			Santa Fe Buckman Direct Diversion	\$190 M	DB	N/A	DB's Commercial Manager	DB's Commercial Manager
			Silicon Valley Clean Water - Front of Plant: Stage 1 & 2	\$100 M	PDB	Owner Advisor	N/A	N/A
			Seattle Public Utilities Cedar Water Treatment Plant	\$78M	DBO	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor

OWNERS ADVISOR PROJECT EXPERIENCE						Role during Project Phases		
			Seattle Public Utilities Tolt Water Treatment Plant	\$70M	DBO	Owner Advisor	Owner Advisor	Owner Advisor
			Brightwater Treatment Plant	\$1.8B	GC/CM, DB, DBB	N/A	Oversight Consultant for KC Council	Oversight Consultant for KC Council
2	Patrick Weber (Brown and Caldwell)	Patrick has 10 years of experience providing OA services for procurement, design oversight, and construction oversight of alternative delivery projects around the country, focused primarily on progressive design-build (PDB).	Jefferson and Hood Street Surface Water Interceptor PDB, City of Tacoma, Washington	\$30M	PDB	Owner Advisor	Consultant PM	Consultant PM
			Reservoir 6 Roof Replacement, City of Everett, Washington	\$4.8M	FPDB	Procurement Support	Support	Support
			Lakeside Redirect Conveyance Improvements, Middletown, Ohio	\$13M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			CSO Storage Basin Project, Middletown, Ohio	\$45M	PDB	Owner Advisor	Owner Advisor	Pending
			Mill Creek WWTP Diversion Chamber, Metropolitan Sewer District of Greater Cincinnati, Ohio	\$37M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Little Miami WWTP Solids and Odor Improvements, Metropolitan Sewer District of Greater Cincinnati, Ohio	\$145M	PDB	Owner Advisor	Pending	Pending
			Pure Water Soquel Program Soquel Creek Water District, CA	\$100M	PDB, OMAR	Owner Advisor	N/A	N/A

OWNERS ADVISOR PROJECT EXPERIENCE						Role during Project Phases		
			Coyote Pumping Plant Electrical Upgrades, Valley Water, CA	\$18M	PDB	Owner Advisor	N/A	N/A
3	Adam Wirthlin (Tanner Pacific)	Adam has 20 years of experience in construction and cost estimating, including providing independent cost estimates and related negotiations support for design-build projects.	Silicon Valley Clean Water - Front of Plant: Stage 1 & 2	\$100 M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Soquel Creek Water District – Pure Water Soquel Pipeline	\$35M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Silicon Valley Clean Water – Gravity Pipeline: Stage 1 & 2	\$220 M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Silicon Valley Clean Water - Pump Station Improvements: Stage 1 & 2	\$90M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Sound Transit – Northgate Extension N140/150 Contract	\$300 M	GC/CM	Owner Advisor	Owner Advisor	Owner Advisor
			Sound Transit – Federal Way Link Extension	\$1.2B	D-B	Owner Advisor	Owner Advisor	N/A

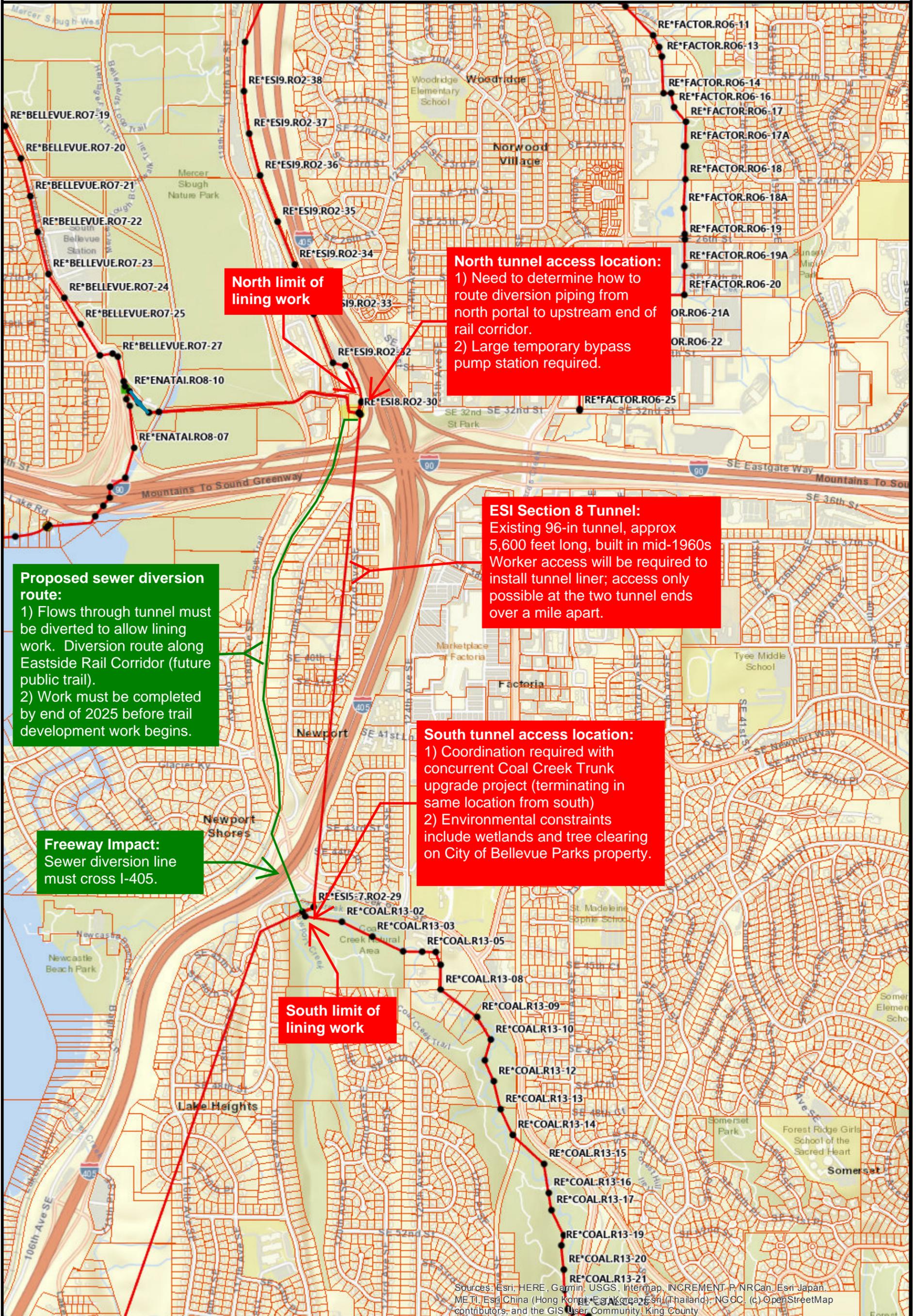
**ATTACHMENT C
CONSTRUCTION HISTORY**

King County - Construction History (10 years)										
Project No.	Project Name	Project Description (1-2 sentence description)	Contracting Method	Planned Start (MM/YY)	Planned Finish (MM/YY)	Actual Start (MM/YY)	Actual Finish (MM/YY)	Planned Budget (\$X.XM)	Actual Budget (\$X.XM)	Reason for Budget or schedule overrun
1.	Pier 50 Float Replacement	Design, construct and deliver a "turn-key" ready for use concrete float (approx. 117'x30') for the King County Water Taxi at the new WSF Colman Dock.	D-B	02/2018	09/2018	03/2018	05/2019	\$7.2M	\$8M	Float delivery to Colman Dock delayed due to WSF construction delay. Budget changes due to moorage costs, float installation costs and steel guide pile hoop design change.
2.	Judge Patricia Clark Children and Family Justice Center – Phase A	New Facility to replace the Youth Services Center (YSC)	D-B	03/2015	04/2020	03/2015	TBD	\$154M	\$188M	The schedule for the Children and Family Justice Center was extended primarily due to permitting delays resulting from legal challenges. Budget increases were driven by owner-requested changes, unforeseen conditions (soils), permitting delays, and changes in law. While the project has been substantially complete (Phase 1a-Courthouse & Detention) since late 2019 and (Phase 1b – Garage & Alder School) since July of 2021, there are a few small issues being worked on to get the contract to close out.
3.	Interim Base Electrification (IBE)	Infrastructure for charging of electric buses (diesel to electric)	D-B	08/2021	02/2025	12/2021	Current	\$60M	\$94M In progress	Escalation due to pandemic and long lead to acquiring equipment
4.	Atlantic Base Refurbishment	Replace all concrete paving and underground infrastructure (including storm drainage, sanitary sewer, industrial waste disposal system, buried power lines, natural gas supply system, domestic and fire water mains, and storage tanks) in the bus storage yard at King County Metro's Atlantic Base in Seattle.	GC/CM	12/2021	11/2025	12/2021	Current	\$32M	In progress	
5.	Harborview Maleng Building Single Patient Rooms Project	Convert two outpatient clinic floors in Maleng building into single patient rooms and renovate two floors in Ninth and Jefferson Building (NJB) into outpatient clinics.	D-B	11/2021	06/2025	11/2021	Current	\$75M	\$78M In progress	Harborview requested additional scope and will be providing additional budget (\$3M) for this project.
6.	Eastside Interceptor Lining (Section 2)	The scope of this project included design and implementation of the rehabilitation of approximately 3,900 linear feet of the Eastside Interceptor Section 2 (ESI 2), located in Renton.	D-B-B	3/2019	3/2020	3/2019	9/2020	28,302,545	22,593,336	NA
7.	Kent-Auburn Conveyance System Improvements	The scope of this project included the design and construction of the Pacific Pump Station Discharge and Auburn West Interceptor Parallel pipelines. The pipelines totaled about	D-B-B	1/2017	12/2019	2/2017	1/2020	27,388,464	22,850,503	NA

	(Phase B)	3 miles in length and include regions of both force main and gravity sewer, ranging in diameter from 16 inches to 48 inches.								
8.	M Street Trunk Repair	The scope of this project included excavation, pipe demolition and repair, installation of maintenance holes, and associated traffic control for refurbishment of the M Street Trunk.	D-B-B	4/2020	8/2020	4/2020	6/2020	613,301	646,100	The engineer's estimate was lower than the final bid for the project.
9.	Magnolia Wet Weather Storage Facility	The scope of this project included design and construction of an approximately 1.5-million-gallon CSO storage tank in the vicinity of Terminal 91 in Seattle, and a conveyance pipeline to connect the existing interceptor in 32nd Avenue West to the storage tank. The scope included odor control and mechanical, electrical, and control systems to enable the system to function when required.	D-B-B	12/2013	12/2015	12/2013	9/2017	25,294,357	45,574,941	Legal issues. Installation of pipeline using HDD
10.	Murray Wet Weather Storage Facility	The scope of this project included the design and construction of a one-million-gallon Combined Sewer Overflow (CSO) control underground storage facility adjacent to the Murray Pump Station and the acquisition of six contiguous private properties across the street from the existing Murray Pump Station on Beach Drive Southwest in Seattle. The scope also included design and construction of above- and below-grade structures on the storage tank site that housed odor control and a standby power generator. The project included site development consistent with the location near a public park.	D-B-B	9/2013	2/2017	10/2013	9/2017	22,928,871	25,397,116	Additional construction contract required that was not accounted for at Gate 3 and the low responsive bid was higher than the engineer's estimate.
11.	North Creek Interceptor	This project increased the capacity of part of the North Creek Interceptor Sewer serving southwestern Snohomish County. The project involved replacement of 10,000 LF of existing gravity pipe with larger gravity pipes, 36 to 48 inches in diameter. Both trenchless (open face shield tunneling and pipe ramming) and open trench construction methods were used.	D-B-B	3/2014	6/2017	2015	2021	39,543,726	63,040,220	The original construction contract was terminated with the initial contractor for inability to complete the work. A project-specific work order was issued under the January 19, 2017, Executive determination of emergency to complete the project. The change in budget and schedule represents increases in both cost and time for construction, consultant, construction management, permitting/easement and staff costs needed to complete the project due to this issue.
12.	Rainier Valley Wet Weather Storage	This scope of this project included the design and construction of a 0.34-million-gallon, off-line storage tank and install conveyance that will divert flows during storm events from the Hanford trunk to the Bayview tunnel.	D-B-B	10/2015	1/2018	5/2016	5/2019	19,975,980	19,595,525	Advertisement was delayed due to the Worthington property acquisition (use and possession was granted in August 2015) and Facility Plan approval from the Department of Ecology.

Section 8: Overview Site Map

King County Eastside Interceptor Section 8 Rehabilitation Project



North limit of lining work

North tunnel access location:
 1) Need to determine how to route diversion piping from north portal to upstream end of rail corridor.
 2) Large temporary bypass pump station required.

ESI Section 8 Tunnel:
 Existing 96-in tunnel, approx 5,600 feet long, built in mid-1960s
 Worker access will be required to install tunnel liner; access only possible at the two tunnel ends over a mile apart.

Proposed sewer diversion route:
 1) Flows through tunnel must be diverted to allow lining work. Diversion route along Eastside Rail Corridor (future public trail).
 2) Work must be completed by end of 2025 before trail development work begins.

Freeway Impact:
 Sewer diversion line must cross I-405.

South tunnel access location:
 1) Coordination required with concurrent Coal Creek Trunk upgrade project (terminating in same location from south)
 2) Environmental constraints include wetlands and tree clearing on City of Bellevue Parks property.

South limit of lining work

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, King County



Attachment E
Section 6: Project Organization Chart
King County Eastside Interceptor Section 8 Rehabilitation Project

King County
 Owner Advisor Team
 Design-Builder

WTD Definition/Delivery Board
 PDB Procurement - N/A
 PDB Oversight (Design) - N/A
 PDB Oversight (Construction) - N/A

Progressive Design-Builder (TBD)

Ann Fowler, P.E., PMP, Assoc. DBIA
 King County PM
 PDB Procurement - 50%
 PDB Oversight (Design) - 50%
 PDB Oversight (Construction) - 50%

Alternative Delivery Committee
 PDB Procurement - As Needed
 PDB Oversight (Design) - As Needed
 PDB Oversight (Const.) - As Needed

Acronyms	
BC	Brown and Caldwell
CM	Construction Management
DBIA	Design-Build Institute of America
OA	Owner Advisor
PDB	Progressive Design-Build
PM	Project Manager
PMP	Project Management Professional
SME	Subject matter expert
TP	Tanner Pacific
WTD	Wastewater Treatment Division

Melissa Jordan, Assoc. DBIA
 PDB Procurement
 PDB Procurement - 50%
 PDB Oversight (Design) - N/A
 PDB Oversight (Construction) - N/A

Douglas Jones, P.E., DBIA
 Project Engineer
 PDB Procurement - 10%
 PDB Oversight (Design) - 25%
 PDB Oversight (Construction) - 15%

Bob Isaac
 Lining Program Manager
 PDB Procurement - 10%
 PDB Oversight (Design) - 5%
 PDB Oversight (Construction) - 5%

Tony Robinson
 Project Representative (CM)
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 100%

Diane Navarro, Assoc. DBIA
 Contract Administration
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 20%

Pat Tangora
 OA SME (BC)
 PDB Procurement - 20%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 10%

Patrick Weber, P.E., PMP, DBIA
 OA PM (BC)
 PDB Procurement - 35%
 PDB Oversight (Design) - 20%
 PDB Oversight (Construction) - 15%

Adam Wirthlin, P.E.
 OA Lead Estimator (TP)
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 5%

Specialty Subconsultants
 CM: Kennedy Jenks
 Risk: Aquanti
 Permitting: ESA
 Public Outreach: EnviroIssues
 OA/Cost: Tanner Pacific
 Scheduling/Constructability: Ott-Sakai
 Easements: Contract Land Staffing

Support Functions
 Legal
 Procurement